



COURSE SYLLABUS 2020-2021

Course Goals:

Course Name: Regular Physics

Teacher Name: Marissa Yap

Teacher Contact Information: E-mail Address: mcordova-yap@cguhsd.org
Phone Number: 520-836-8500, Extension 3926
Personal Contact number: (520) 276-6512

Reference: Pasco Essential Physics (3rd Edition) Interactive e-book
<http://student.pasco.com/>
Physics by Cutnell & Johnson, 9th ed. (2012)

Course Materials: laptop, physics notebook (online and composition notebooks), calculator, coloring materials, pencil and eraser

Course Objectives: This physics course is designed to provide knowledge and experiences through group activities and experiments so that students will gain understanding of the physical world. At the end of this course students will be able to:

1. Demonstrate problem-solving skills for various physical problems using quantitative reasoning, critical thinking, and appropriate mathematical techniques.
2. Identify physical concepts in their everyday experience.
3. Demonstrate skills in the collection and interpretation of data from laboratory experiments.
4. Develop habits and practices that minimize uncertainty in physical measurements.
5. Understand and use significant figures.
6. Develop communications skills to ensure accurate transfer of technical information.

Course Description: Physics is a science class that requires basic mathematical and analytical skills. The physics curriculum includes interactions of matter and energy, velocity, acceleration, force, energy, momentum, electricity and magnetism, and mechanical waves and sound. Students will do hands on activities where they apply their knowledge of the laws of physics to solve a problem. Students will also be doing long term projects and they will present in class before the end of each semester. Students will take formative and summative assessments in the duration of the course to check for their understanding.

FIRST SEMESTER:

FIRST QUARTER

1. Skills, Methods and the Nature of Physics
(Measurement and Conversion of Units)
2. Lab Safety and Scientific Method
3. Scalar and Vector Quantities
4. Speed and Velocity
5. Acceleration
6. Acceleration of Bodies Due to Gravity (Free Fall)
7. Uniform acceleration, Projectile & Circular Motion
8. Newton's Laws of Motion
First Law (Law of Inertia)
Second Law (Law of Acceleration)
Third Law (Law of Interaction)

SECOND QUARTER

9. Momentum
10. Types of Collisions and the Law of Conservation of Momentum
11. Torque
12. Newton's Laws of Gravitation and Coulomb's Law
13. Types of Energy and Energy Conversions
14. Law of Conservation of Energy
15. Electric, Gravitational & Magnetic Fields

SECOND SEMESTER:

THIRD QUARTER

Electric Charge and Electric Force:

16. Static Electric Charge
17. The electric Force
18. Electric Current & Magnetic Field
19. Representing Electric Circuits

FOURTH QUARTER

- | | |
|---------------------------------|---------------------|
| 20. Ohm's law | 23. Wave Properties |
| 21. Kirchoff's Laws | 24. Wave Phenomena |
| 22. Mechanical Waves and Sound: | |

Grading System:

Labs/Lab Report	20%
Homework/Classwork	35%
Unit Test/Exams	25%
Quizzes	<u>20%</u>
Total:	100%

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = 59 & Below

Extra Credit Opportunities: Bell works and substantial notes in the chemistry notebook may be considered for extra credits.

- A. Late Work Policy:** All assignments are expected to be due at the end of the class period after it is given unless otherwise informed. If you have an absence, do your make up after you return. It is the student's responsibility to get the assignments/test that he or she missed after school hours. Deductions will incur after a week (5 points per week).

IMPORTANT: If work is already returned to class and you missed it, you will have to ask for a new set of questions after class hours.

Turning in Your Work: Turn in your work on time. Not being able to turn in work on time will be given zero with remark "missing" which means you have the chance to turn in the assignment. However, after two days of noncompletion, the remark "missing" will be deleted and the score zero becomes final.

- B. Tutorials.** You may make an appointment or join Office Hours, and I will do the best I can to be available to you; just make sure you notify me of your intentions. PLEASE JOIN THE TUTORIALS IF YOU FEEL UNSURE ABOUT ANYTHING. Do Not Procrastinate!

MS Teams Virtual Office Hours for Tutorials and Consultations

Thursdays (3:00-4:00 p.m.)

- C. Tests.** Major tests will be announced at least 2 days in advance. If you are present any day before the test when the test dates are announced, you will be expected to take the test with the rest of the class (i.e., absent 1 day before the test, but present on the day of the test, you still have to take the test).

Classroom Management Plan (Online Class):

TEAMS Meeting Norms:

1. All Participants should be in “MUTE” mode unless speaking.
2. Click the Raise Your Hand sign at the bottom of your video if you want to ask questions or share an idea about a topic on hand.
3. You may also use the chat feature to type your questions as discussions are ongoing.
4. You are expected to refrain from sending messages to your classmates during our class discussions.
5. Turn off all notification and place phones on silent.

Microsoft TEAMS Meeting Etiquette:

1. Check your surroundings.
 - a. Lighting
 - b. What is behind you?
2. Double check your clothing.
3. Follow ground rules, just like a live discussion in our classroom.

Tips for Student Success in an Online Environment:

Develop a consistent, quiet and clean space to work

Abide by the same expectations that would be in place if you were in a physical classroom

School appropriate attire is required to participate in video classwork

Discipline matters will be fairly and consistently enforced

Contact your teacher with any questions that may arise

Be patient and flexible with your fellow students and your teachers, as this is a challenging time for all.

Classroom Management Plan (In-Person):

The expectations, rules, procedures, and consequences are intended to keep the classroom environment safe, orderly, and productive. You are expected to respect the rules to maximize learning time together. The rules are not hard to follow, nor are any of them “out of the ordinary.” Thank you for your cooperation.

COVID Handbook Addendum:

COVID-19

- Maintain 6' spacing (as much as possible)
- No intentional coughing on or near anyone
- Face masks must be worn at all times
- Face masks must be disposable or cloth (at least two layers if possible)
- No bandanas
- No mesh masks
- Mask must be deemed appropriate by administration and staff and conform to all regulations
- No spraying of cleaning products on another student or wasting cleaning spray
- Medical documentation must be provided for any reason that a mask cannot be worn
- Please see the Center for Disease Control's website for further guidance for mask recommendations: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-to-wear-cloth-face-coverings.html>
- **Any violation of these and or a combination will result in an immediate removal from the class and parents/guardian will be called immediately to pick the student up. Students will be subject to all disciplinary actions if these rules are violated from conference to suspension.**

Class Procedures

1. Go to the rest room before entering the classroom.
2. Next rest room time will be 10 minutes before the dismissal.
3. Only one student at a time will be allowed to go to the rest room. Log in and out and bring hall pass if you need to go out of the classroom. You are given a maximum of 5 minutes.
4. Put your desk back in line before you leave each day.
5. Get missed work from the teacher before or after school. Your attendance is essential for optimal learning. Being on time and present in class physically and mentally have a direct positive effect in your grade.
6. If you are absent, it is your responsibility to obtain any missed classwork. Refer to the activities posted in blackboard/MS Teams. Follow-up with the teacher if needed after school.
7. Make arrangements to take quizzes and tests immediately after school. It is your responsibility to make these arrangements. If you do not make-up quizzes in a timely manner (before graded quizzes are returned to the students who were present), you will earn a "zero" on the quiz or test.

Class Rules

1. Cellphones must be turned off and must not be seen in this class and so you are expected to place them in your bags. Other electronic devices (CD players, handheld games, mini-TVs or personal DVD players, pagers, etc.) are NOT permitted in the classroom.
2. No food or drink, except water.
3. Arrive to class on time & ready to learn. When the bell rings, you need to be sitting in your assigned seat. You should immediately begin on the bell work.
4. Never line up at the door before dismissal. Remember, Ms. Yap dismisses you, not the bell.
5. Use polite and appropriate language. Offensive, derogatory, and profane terms are not tolerated. To have a safe classroom environment where all students feel comfortable no put downs, swear words, or slang words with demeaning connotations will be accepted.
6. Raise your hand to speak or leave your desk.

CLASSROOM DISCIPLINE

If you fail to meet any of the above rules, then the following consequences will occur:

1. Verbal warning: I start off by telling you that you are doing something wrong and that you need to stop.
2. Parent Call/Parent-Teacher conference
3. Office Referral: If you continue to break rules then you will receive an office referral.

Movie/Film Policy: Parental request forms will be distributed for each movie shown. Also, your teacher will ask for administrative approval before a movie will be shown to the class. If incase a movie relevant to a chemistry topic is shown and the students' parents decline the student permission to view the movie, an alternative assignment will be given such as a research work on the same topic.

General Lab Rules (If performing group experiments are allowed during this time of pandemic)

1. Conduct yourself in a responsible manner.
2. Follow all written and verbal instructions carefully. If you do not understand a direction or part of a procedure, ask the instructor before proceeding.
3. No student may work in the lab without an instructor present.
4. When first entering a science room, do not touch any equipment in the lab area until told to do so. Perform only experiments authorized by the instructor. Unauthorized experiments are prohibited.
5. No food, drink or chewing gum is allowed in the lab.
6. Keep aisles clear. Move bags out of aisles.
7. Wash your hands with soap and water after performing all experiments. Clean all work surfaces at the end of the experiment. Return all equipment clean and in working order as directed.
8. Work in the assigned lab area. Do not wander the room, distract other students, or interfere with other groups' experiments.
9. When removing an electrical plug from its socket, grasp the plug, not the electrical cord.
10. When using sharp instruments, carry the tips and points pointing down and away. Never try to catch falling sharp instruments. Grasp sharp instruments only by the handles.
11. Dress properly during a lab activity. Shoes must completely cover the foot. Heavy Masses are used in some labs and do fall from time to time! Keep a pair in your locker, just in case.

Approved:

Stacy Brady
Science Dept. Head

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Please sign below indicating that you have read and understood the expectations, content, and policies for Regular Physics (Teacher: Mrs. Marissa Yap).

Name of student

Student's Signature

Date

Name of parent/guardian

Parent's Signature

Date